

CONTRACT INSPECTION REPORT			CONTRACT NO.		TASK NO.		
TO:  CONTRACT ADMINISTRATION & SETTLEMENT BRANCH/PD/OL			DATE <b>24 November 1965</b>				
			INSPECTION REPORT NO. (If final, so state) <b>3</b>				
			ESTIMATED COMPLETION DATE <b>1 April 1966</b>				
NAME OF CONTRACTOR <div></div>			Declass Review by NGA.				
TYPE OF COMMODITY OR SERVICE  <b>AP-3 Stereo Comparator</b>							
THE CONTRACTOR IS ON SCHEDULE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE, ON REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDITIONAL FUNDS INVOLVED.				
PER CENT OF WORK COMPLETED - <b>50%</b>							
PER CENT OF FUNDS EXPENDED - <b>50%</b>							
HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If yes, give details on reverse side.)							
HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If yes, indicate items, quantity, and cost on reverse side.)							
INCENTIVES							
IS THIS AN INCENTIVE CONTRACT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, CHECK TYPE <input type="checkbox"/> COST <input type="checkbox"/> PERFORMANCE <input type="checkbox"/> DELIVERY			NOTE: USE REVERSE SIDE FOR COMMENTS. FINAL REPORT MUST CONTAIN INCENTIVE EVALUATION.				
OVERALL PERFORMANCE OF CONTRACTOR							
1. <input type="checkbox"/> OUTSTANDING 3. <input type="checkbox"/> ABOVE AVERAGE 5. <input type="checkbox"/> BELOW AVERAGE 7. <input type="checkbox"/> UNSATISFACTORY							
2. <input type="checkbox"/> EXCELLENT 4. <input checked="" type="checkbox"/> AVERAGE 6. <input type="checkbox"/> BARELY ADEQUATE							
IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR BARELY ADEQUATE, INDICATE REASONS ON REVERSE SIDE.							
RECOMMENDED ACTION							
<input checked="" type="checkbox"/> CONTINUE AS PROGRAMMED <input type="checkbox"/> WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE							
<input type="checkbox"/> TERMINATE <input type="checkbox"/> OTHER (Specify)							
IF TERMINATION IS RECOMMENDED OR IF THIS IS A FINAL REPORT PUT COMMENTS ON REVERSE IN NARRATIVE FORM ON CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DELIVERABLE ITEMS UNDER THE CONTRACT HAVE BEEN RECEIVED. THESE INCLUDE, WHERE APPLICABLE, THE FOLLOWING:							
ITEM		REC'D	DOES NOT APPLY	ITEM		REC'D	DOES NOT APPLY
PROTOTYPES				MANUALS			
DRAWINGS AND SPECIFICATIONS				FINAL REPORT			
PRODUCTION AND/OR OTHER END ITEMS				SPECIAL TOOLING			
				OTHER GOVERNMENT PROPERTY			
DATE OF LAST CONTACT WITH CONTRACTOR <b>23 November 1965</b>							
SIGNATURE OF INSPECTOR				DIVISION			
<div></div>				<div></div>			
INSPECTOR'S EXTENSION							

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NARRATIVE REPORT

☒ INTERIM☐ FINAL

On 23 November 1965, [ ] of P&DS along with [ ] of TID visited the [ ] Research Lab to monitor the programming portion of AP-3 Analytical Stereoplotting system.

1. The assembly of the AS-11A computer will be completed next week and it will be put through check out procedures which ordinarily take two to three weeks. The computer will next be modified for the AP-3 system; this will consist mainly of adding 10 memory lines and servo logic for the coordinatograph. It is estimated that it will take three to four weeks for modifications and check out, so it will be approximately the end of January before it is ready as an AP-3 computer.

2. The model 35 AW automated teletype has been ordered and will be delivered the end of December. The code to be used is the ASA standard teletype 8 level, 7 channels plus parity check in the eight level.

3. The programming is underway, the frame program is 50% complete and work has started on the real time programs. It was requested that the entire system, Model 35 input-output as well as Tally Reader input output, be put on one code system-the ASA standard teletype code.

The [ ] programmers suggested the following output format:

8 digits 6 digits 6 digits 6 digits 6 digits  
1st line M ID No.     $X_m$      $Y_m$      $Z_m$      $D_m$   
2nd line P ID No.     $X_1$      $Y_1$      $X_2$      $Y_2$

The first line designated by M would be model coordinates and the model distance in millimeters and microns.

The second line designated by P would be the X and Y coordinates of the point on the first photo and the second photo. A three way switch on the teletype would give the option of printing the first line, the second line, or both.

A discussion arose on the possibility of the distance ( $D_m$ ) printout being a ground distance instead of a model distance. [ ] will investigate but are not very optimistic over being able to provide this feature.

TID personnel had reservations about printing out the entire first line each time when in many cases only the distance ( $D_m$ ) is required. They will discuss this back at the Center and [ ] will be notified if the option of only printing  $D_m$  is desired by TID.

4. Terrestrial Photography: [ ] requested the range of focal lengths we expect to use and they were informed that focal lengths from 21mm to 1000mm would be used with most of them in the range of 55 to 200mm. [ ] will program to handle 20 to 1280mm focal lengths and a difference of 10% in focal lengths between photos will be accommodated. Up to 45° conveyance, 9° inclination and 0° to 90° declination will be provided for in the program. Lens distortion, earth curvature, and air refraction correction will be included in this program. The program will allow for work 25% forward and back of the

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range to the reference plane.

X1 5. Frame and Convergent Pan Photography: The contract only requests a range of focal lengths of 1 to 48 inches. The monitor requested this be extended to 1000 inches. [ ] stated this could not be done under the scope of the present contract. Upon further questioning [ ] indicated they have a contract with ACIC under which they are trying to extend the range of focal lengths. A request to increase the maximum yaw from  $49^\circ$  to  $460^\circ$  was rejected. [ ] would require supplemental funds for a project. 25X

X1 6. Strip Photography: The monitor had expected to have the mathematical transformations for strip photography available for this meeting but the Chief, TID/TAB stated it would take until the first of the year to debug the mathematical model. Strip photography in general was discussed with the [ ] programmers and they expressed interest in submitting a proposal to program this into the AP-3 system when the mathematical model is available.

7. Training Courses: The monitor requested that [ ] submit proposals for training programmers and maintenance personnel for AP-3 system. 25X

8. Off Line Support: The AP-3 system will require off line support. This support will consist mainly of computing the coefficients for model deformation.

9. Image Correlation: The image correlation unit, which is not included in our system, was demonstrated on the AP-2. The correlation was very good and the automatic contouring was rapid and reasonably accurate.

Repeatability was demonstrated by having the unit trace over a contour proceeding from the opposite direction.

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